UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6298383

Link to Claims Section

October 2, 2001

Integration of authentication authorization and accounting service and proxy service

REISSUE: October 2, 2003 - Reissue Application filed Ex. Gp.: 2152; Re. S.N. 10/679,203 (O.G. January 13, 2004)

CERT-CORRECTION: June 25, 2002 - a Certificate of Correction was issued for this patent (O.G. July 16, 2002)

APPL-NO: 225247 (09)

FILED-DATE: January 4, 1999

GRANTED-DATE: October 2, 2001

ASSIGNEE-AT-ISSUE: Cisco Technology, Inc., San Jose, California, 02

ASSIGNEE-AFTER-ISSUE: April 5, 1999 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., CISCO TECHNOLOGY, INC. 170 WEST TASMAN DRIVE SAN JOSE CALIFORNIA 95134, Reel and Frame Number: 009896/0727
April 9, 1999 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., CISCO TECHNOLOGY, INC. 170 WEST TASMAN DRIVE SAN JOSE CALIFORNIA 95134, Reel and Frame Number: 009896/0729

ENGLISH-ABST:

A single database maintained centrally hosts both proxy service data and authentication, authorization and accounting (AAA) data. Data is then copied to storage used locally by each system when both systems are instantiated. Therefore the ISP/Telco need not maintain two different data bases. A protocol gateway (PGW) is used to determine if the incoming user is a wholesale or retail user. The PGW filters the domain portion of the access request to locate a remote AAA service. If one such service is found, the PGW routes the communication via the proxy service to proxy it to the remote AAA service. The returned packet from the remote AAA service is then searched for an IP address to be assigned to the incoming user. If one is not found the PGW obtains a dynamically allocated IP address from a DHCP server (using an IP-Pool-ID if supplied in the returned packet from the remote AAA service). The same mechanism is used to forward accounting event packets from the NAS to the remote AAA server. The PGW may monitor more than one proxy and/or AAA service and load balance among them.

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?us6298383/pn

  ** SS 4: Results 1

  Search statement   5

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  1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
  PN   - US6298383 B1 20011002 [US6298383]
  TI   - (B1) Integration of authentication authorization and accounting
         service and proxy service
  PA   - (B1) CISCO TECH IND   (US)
  PAO - Cisco Technology, Inc., San Jose CA [US]
  IN   - (B1) SITARAMAN ARAVIND   (US); SURYANARAYANAN KALPATHI S   (US); GUTMAN
         ANDREW MARK   (US); STHOTHRA BHASHAM SAMPATH KUMAR   (US)
  AP   - US22524799 19990104 [1999US-0225247]
  PR   - US22524799 19990104 [1999US-0225247]
  IC   - (B1) G06F-013/00
  EC   - H04L-029/06C6C2
  PCL - ORIGINAL (O) : 709229000
  DT   - Basic
  CT   - US4763191; US4922486; US4962497; US5003595; US5241594; US5241599;
         US5351136; US5416842; US5423002; US5440635; US5560005; US5621721;
         US5655077; US5668857; US5671354; US5684950; US5717604; US5745556;
         US5768521; US5778182; US5809422; US5815665; US5835727; US5838683;
         US5845070; US5898780; US5905736; US5933625; US5944824; US5960409;
         US5970477; US5991810; US6011910; US6018619; US6021496; US6026440;
         US6035281; US6047376; US6052730; US6092196; US6119160; US6141687;
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         Network Working Group, RFC 2138, Apr. 1997, pp. 1-57.
  STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
  AB   - A single database maintained centrally hosts both proxy service data
         and authentication, authorization and accounting (AAA) data. Data is
         then copied to storage used locally by each system when both systems
         are instantiated. Therefore the ISP/Telco need not maintain two
         different data bases. A protocol gateway (PGW) is used to determine if

the incoming user is a wholesale or retail user. The PGW filters the
domain portion of the access request to locate a remote AAA service.
If one such service is found, the PGW routes the communication via the
proxy service to proxy it to the remote AAA service. The returned
packet from the remote AAA service is then searched for an IP address
to be assigned to the incoming user. If one is not found the PGW
obtains a dynamically allocated IP address from a DHCP server (using
an IP-Pool-ID if supplied in the returned packet from the remote AAA
service). The same mechanism is used to forward accounting event
packets from the NAS to the remote AAA server. The PGW may monitor
more than one proxy and/or AAA service and load balance among them.
UP   - 2001-41

1/1 LGST - (C) EPO
PN   - US6298383 B1 20011002 [US6298383]
AP   - US22524799 19990104 [1999US-0225247]
ACT - 20020625 US/CC-A
      CERTIFICATE OF CORRECTION
    - 20040113 US/RF-A
      REISSUE APPLICATION FILED
      EFFECTIVE DATE: 20031002
UP   - 2004-05

1/1 CRXX - (C) CLAIMS/RRX
PN   - 6,298,383 A 20011002 [US6298383]
PA   - Cisco Technology Inc
ACT - 20031002 REISSUE REQUESTED
      ISSUE DATE OF O.G.: 20040113
      REISSUE REQUEST NUMBER: 10/679203
      EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2152